

Figure 1

[illegible]

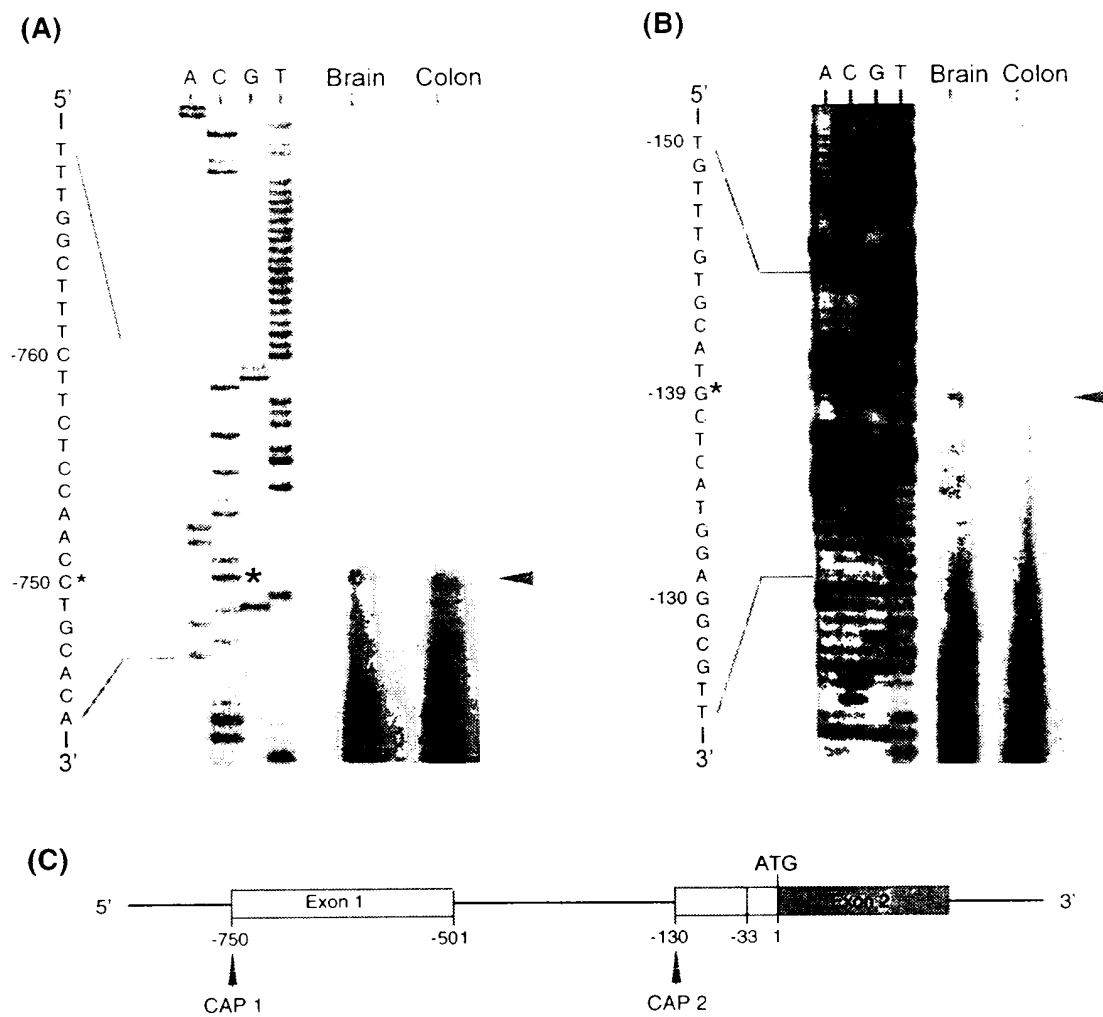


Figure 3

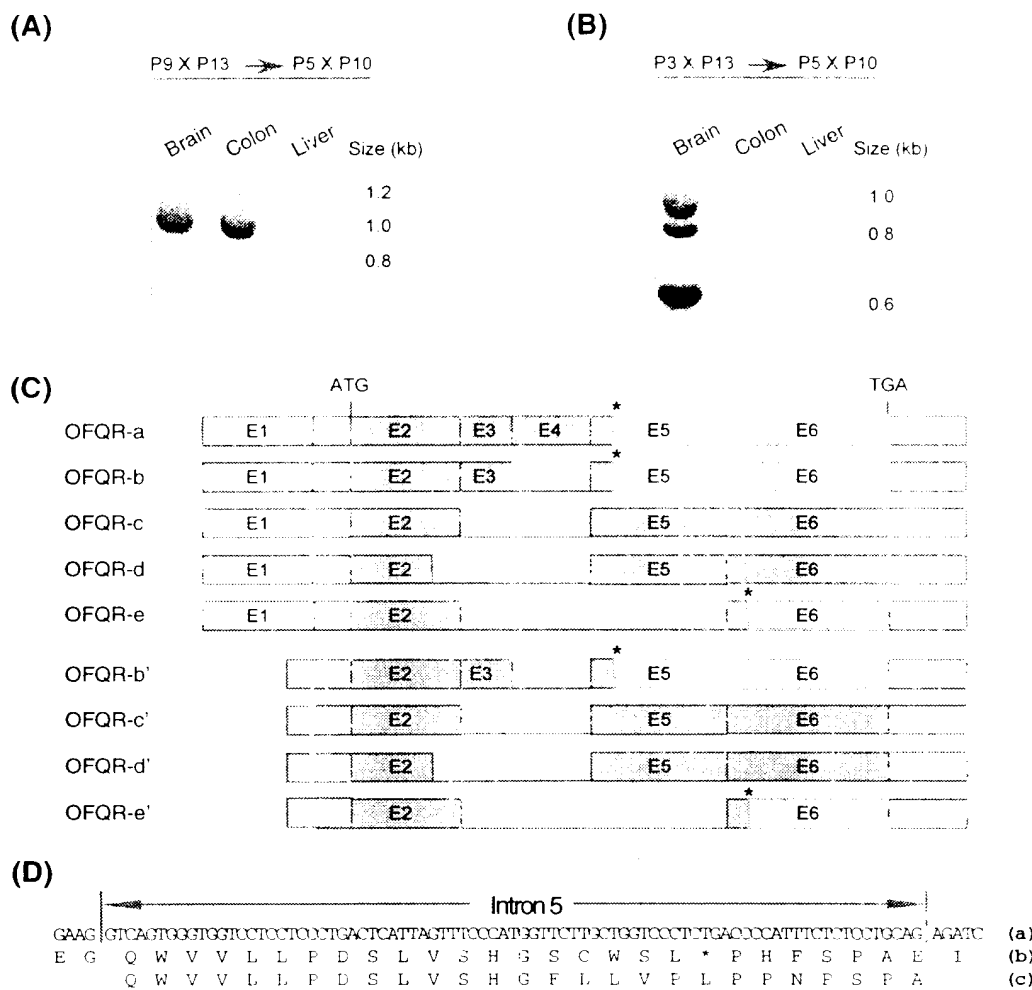


Figure 4

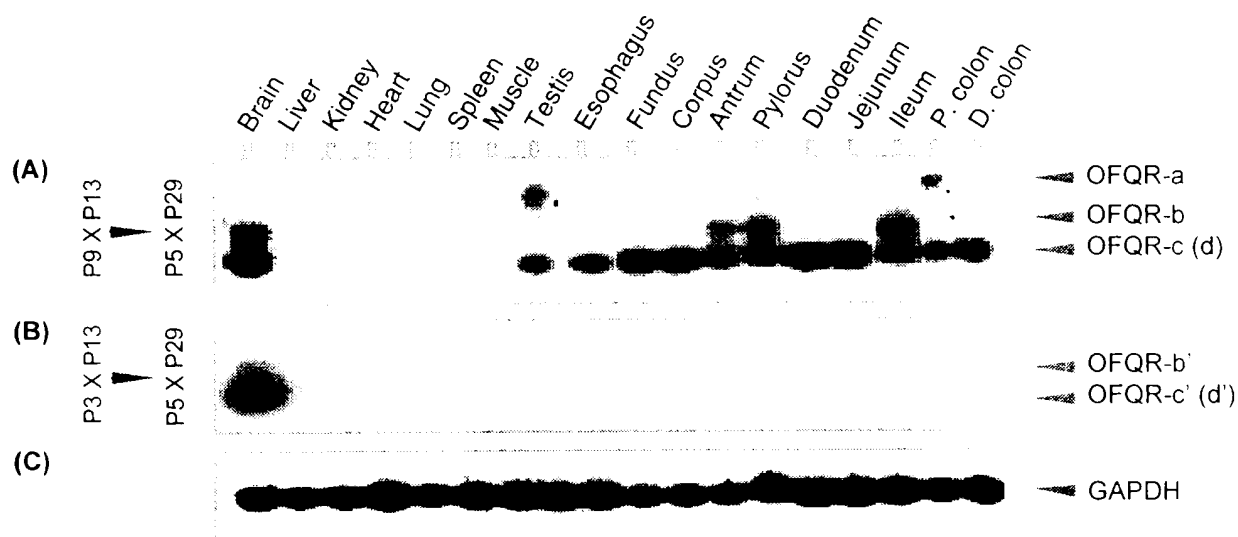


Figure 5

Figure 6
SEQ ID NO:9

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Figure 6 (cont.)

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Figure 6 (cont.)

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Figure 7

SEQ ID NO:10

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Figure 8
SEQ ID NO:11

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Figure 9
SEQ ID NO:12

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Figure 10
SEQ ID NO:13

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Figure 11

SEQ ID NO:14

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61     accggtgct gcgtctagtc aatatcttat cttccgagca ggagctagga gccattccca
121    gccgcagcag accccaatct agagtgcag tcattgctca gtccactgtg ctctgcctg
181    cccgcctttc tgctaagcat tggggtctat tttggcccag cttctgaaga ggctgtgtgt
241    gccgttggag gaactgtact gagtggcttt gcagggtgac agcatggagt cctcttttcc
301    tgctccatac tgggaggtct tgtatggcag ccactttcaa gggaacctgt ccttcctaaa
361    tgagaccgta ccccaccacc tgctcctcaa tgctagtcac agcgccttcc tgccccctgg
421    actcaaggtc accatcgtgg ggctctactt ggctgtgtgc atcggggggc tctgggggaa
481    ctgcctcgtc atgtatgtca tcctcaggca caccaagatg aagacagcta ccaacattta
541    catatttaat ctggcactgg ctgataccct ggtcttgcta acactgccct tccagggcac
601    agacatccta ctgggcttct ggccatttgg gaatgcactc tgcaagactg tcattgctat
661    cgactactac aacatgttta ccagcacttt tactctgacc gccatgagcg tagaccgcta
721    tgtggctatc tgccacccta tccgtgccct tgatgttcgg acatccagca aagcccaggc
781    tgttaatgtg gccatatggg ccttggttcc agtggttggg gttcctgttg ccatcatggg
841    ttcagcacia gtggaagatg aagagatcga gtgcctgggt gagatccctg cccctcagga
901    ctattggggc cctgtattcg ccactcgcac cttccttttt tccttcacat tccctgtgct
961    gatcatctct gtctgctaca gcctcatgat tcgacgactt cgtgggtgtc gtctgcttcc
1021   aggctcccgg gagaaggacc gaaacctgcg gcgtatcact cgactgggtc tggtagtggt
1081   ggctgtgttt gtgggctgct ggacgcctgt gcagggtgtt gtctgggtc aaggactggg
1141   tgttcagcca ggtagtgaga ctgcagttgc catcctgcgc ttctgcacag ccctgggcta
1201   tgtaaacagt tgtctcaatc ccattctcta tgctttcctg gatgagaact tcaaggcctg
1261   ctttagaaaag ttctgctgtg cttcatcctt gcaccgggag atgcagggtt ctgatcgtgt
1321   gcggagcatt gcccaaggat ttggccttgg ttgcaagact tctgagacag taccacggcc
1381   agcatga

```

Figure 12
SEQ ID NO:15

MESLFPAPYWEVLYGSHFQGNLSLLNETVPHHLLLNASHSAFLPLGLKVTIVGLYLAVCIGGLLGNCLVMY
VILRHTKMKKTATNIYIFNLALADTLVLLTLFPQGTDILLGFWPFGNALCKTVIAIDYYNMFTSTFTLTAMS
VDRYVAICHPIRALDVRTSSKAQAVNVAIWALASVVGVPVAIMGSAQVEDEEIECLVEIPAPQDYWGPVFA
ICIFLFSFIIPVLIISVCYSLMIRRLRGVRLLSGSREKDRNLRRITRLVLVVVAVFVGCWTPVQVFVLVQG
LGVQPGSETAVAILRFCTALGYVNSCLNPILYAFLDENFKACFRKFCCASSLHREMQVSDRVRSIAKDVGL
GCKTSETVPRPA

Figure 13
SEQ ID NO:16

```
1      ctgcacagcc cctccttctc tcagccgcag ccttctgcc ctecccttc tggetgccgc
61     accggtgct gcgctagtc aatatcttat cttccgagca ggagctagga gccattccca
121    gccgcagcag accccaatct agagtgcag tcattgctca gtccactgtg ctctgcctg
181    cccgcctttc tgctaagcat tggggtctat tttggcccag cttctgaaga ggctgtgtgt
241    gccgttggag gaactgtact gagtggcttt gcagggtgac agcatggagt cctcctttcc
301    tgctccatac tgggaggtct tgtatggcag ccactttcaa gggaacctgt cctcctaaa
361    tgagaccgta ccccaccacc tgctcctcaa tgctagtcac agcgccttcc tgcccttgg
421    actcaaggtc accatcgtgg ggctctactt ggctgtgtgc atcggggggc tctggggaa
481    ctgcctcgtc atgcacacca agatgaagac agctaccaac attacatat ttaatctggc
541    actggetgat accctgggtc tgctaacact gcccttccag ggcacagaca tctactggg
601    cttctggcca tttgggaatg cactctgcaa gactgtcatt gctatcgact actacaacat
661    gtttaccagc acttttactc tgaccgccat gagegtagac cgctatgtgg ctatctgcca
721    cctatecgt gcccttgatg ttgggacatc cagcaaagcc caggctgtta atgtggccat
781    atgggcccctg gcttcagtgg ttgggtgttc tgttgccatc atgggttcag cacaagtga
841    agatgaagag atcgagtgc tggtggagat cctgccccct caggactatt ggggcccctgt
901    attcgccatc tgcattctcc ttttttcctt catcatccct gtgctgatca tctctgtctg
961    ctacagctc atgattcgac gacttcgtgg tgccgtctg ctttcaggct cccgggagaa
1021   ggaccgaaac ctgcccgtga tcactcgact ggtgctggta gtggtggctg tgtttgtggg
1081   ctgctggaag cctgtgcagg tgtttgtcct ggttcaagga ctgggtgttc agccaggtag
1141   tgagactgca gttgccatcc tgcgttctg cacagccctg ggctatgtca acagttgtct
1201   caateccatt ctctatgctt tctggatga gaacttcaag gcctgcttta gaaagtctctg
1261   ctgtgcttca tccctgcacc gggagatgca ggtttctgat cgtgtgcgga gcattgcca
1321   ggatgttggc cttggttgca agacttctga gacagtacca cggccagcat ga
```

Figure 14
SEQ ID NO:17

MESLFPPAPYWEVLYGSHFQGNLSLLNETVPHHLLLNASHSAFLPLGLKVTIVGLYLAVCIGGLLGNCCLVMH
TKMKTATNIYIFNLALADTLVLLTLPPFQGTDILLGFWPFGNALCKTVIAIDYYNMFTSTFTLTAMSVDRYV
AICHPIRALDVRTSSKAQAVNVAIWALASVVGVPVAIMGSAQVEDEEIECLVEIPAPQDYWGPVFAICIFL
FSFIIPVLIISVCYSLMIRRLRGVRLLSGSREKDRNLRRITRLVLVVVAVFVGCWTPVQVFVLVQGLGVQP
GSETAVAILRFCTALGYVNSCLNPILYAFLDENFKACFRKFCCASSLHREMQVSDRVRSIAKDVGLGCKTS
ETVPRPA

Figure 15
SEQ ID NO:18

```
1      gctcatggag gcgttcatgt gcctgttagt gtagttgtgc tgtgttctaa ggccctcagtg
61     gacggtgtct agcactgtgg ttacttgttt ctgtgccctg ttccaggaac tgtactgagt
121    ggctttgcag ggtgacagca tggagtcctt ctttcctgct ccatactggg aggtcttgta
181    tggcagccac tttcaaggga acctgtccct cctaaatgag accgtacccc accacctgct
241    cctcaatget agtcacagcg ccttcctgcc ccttggactc aaggtcacca tcgtggggct
301    ctacttgget gtgtgcatcg gggggctcct ggggaactgc ctcgtcatgt atgtcatcct
361    cagctgggag ggcattgagg gggactggag acagcaggca caccaagatg aagacagcta
421    ccaacattta catatttaa
```

Figure 16

SEQ ID NO:19

```

1      getcatggag gcgttcatgt gcctgttagt gtagttgtgc tgtgttctaa ggctcagtg
61     gacggtgtct agcactgtgg ttacttgttt ctgtgccctg ttccaggaac tgtactgagt
121    ggctttgcag ggtgacagca tggagtccct ctttcctgct ccatactggg aggtcttgta
181    tggcagccac ttccaaggga acctgtccct cctaaatgag accgtacccc accacctgct
241    cctcaatgct agtcacagcg ctttcctgcc ccttggactc aaggtcacca tcgtggggct
301    ctacttggtc gtgtgcatcg gggggctcct ggggaactgc ctcgtcatgt atgtcatcct
361    caggcacacc aagatgaaga cagctaccaa catttacata tttaatctgg cactggctga
421    taccctggtc ttgctaacac tgcccttcca gggcacagac atcctactgg gcttctggcc
481    atttgggaat gcactctgca agactgtcat tgctatcgac tactacaaca tgttaccag
541    cacttttact ctgaccgcca tgagcgtaga ccgctatgtg gctatctgcc accctatccg
601    tgcccttgat gttcggacat ccagcaaagc ccaggctgtt aatgtggcca tatgggccct
661    ggcttcagtg gttggtgttc ctgttgccat catgggttca gcacaagtgg aagatgaaga
721    gatcgagtgc ctggtggaga tccctgcccc tcaggactat tggggccctg tattcgccat
781    ctgcatcttc ctttttctct tcatcatccc tgtgctgac atctctgtct gctacagcct
841    catgattcga cgacttcgtg gtgtccgtct gctttcaggc tcccgggaga aggaccgaaa
901    cctgcggcgt atcactcgac tgggtcgtgt agtgggtggc gtgtttgtgg gctgctggac
961    gcctgtgcag gtgtttgtcc tggttcaagg actgggtgtt cagccaggta gtgagactgc
1021   agttgccatc ctgcgttctt gcacagccct gggctatgtc aacagtgtgc tcaatcccat
1081   tctctatgct ttcttgatg agaacttcaa ggctgcttt agaaagtctt gctgtgcttc
1141   atccctgcac cgggagatgc aggtttctga tcgtgtgcgg agcattgcca aggatgttgg
1201   ccttggttgc aagacttctg agacagtacc acggccagca tga

```

Figure 17

SEQ ID NO:20

```

1      gctcatggag gcgttcatgt gcctgttagt gtagttgtgc tgtgttctaa ggctcagtg
61     gacggtgtct agcactgtgg ttacttgttt ctgtgccctg ttccaggaac tgtactgagt
121    ggctttgcag ggtgacagca tggagtcctt ctttcctgct ccatactggg aggtcttgta
181    tggcagccac tttcaaggga acctgtccct cctaaatgag accgtacccc accacctgct
241    cctcaatgct agtcacagcg ccttcctgcc ccttggaactc aaggtcacca tcgtggggct
301    ctacttggct gtgtgcatcg gggggctcct ggggaactgc ctcgtcatgc acaccaagat
361    gaagacagct accaacattt acatatttaa tctggcactg gctgataccc tggctcttgc
421    aacactgccc ttccagggca cagacatcct actgggcttc tggccatttg ggaatgcact
481    ctgcaagact gtcattgcta tcgactacta caacatgttt accagcactt ttactctgac
541    cgccatgagc gtagaccgct atgtggctat ctgccaccct atccgtgccc ttgatgttcg
601    gacatccagc aaagcccagg ctgttaatgt ggccatatgg gccctggctt cagtggttgg
661    tgttcctggt gcctatcatgg gttcagcaca agtgggaagat gaagagatcg agtgccctgg
721    ggagatccct gcctctcagg actattgggg ccctgtattc gccatctgca tcttcctttt
781    ttcttccatc atccctgtgc tgatcatctc tgtctgctac agcctcatga ttcgacgact
841    tcgtgggtgc cgtctgcttt caggetcccc ggagaaggac cgaaacctgc ggcgtatcac
901    tcgactgggtg ctggtagtgg tggctgtggt tgtgggctgc tggacgctg tgcaggtgtt
961    tgtcctgggt caaggactgg gtgttcagcc aggtagttag actgcagttg ccatcctgcg
1021   cttctgcaca gccttgggct atgtcaacag ttgtctcaat ccattctct atgctttcct
1081   ggatgagAAC ttcaaggcct gctttagaaa gttctgctgt gcttcatccc tgcaccggga
1141   gatgcagggt tctgacgtg tgcggagcat tgccaaggat gttggccttg gttgcaagac
1201   ttctgagaca gtaccacggc cagcatga

```

Figure 18
SEQ ID NO:21

```
1      getcatggag gcgttcatgt gctgttagt gtagttgtgc tgtgttctaa ggctcagtg
61     gacggtgtct agcactgtgg ttacttgttt ctgtgcctg ttccaggaac tgtactgagt
121    ggctttgcag ggtgacagca tggagtccct ctttcctgct ccatactggg aggtcttgta
181    tggcagccac tttaaggga acctgtccct cctaaatgag accgtacccc accacctgct
241    cctcaatgct agtcacagcg ctttcctgcc ccttggactc aaggtcacca tcgtggggct
301    ctacttggct gtgtgcatcg gggggtccct ggggaactgc ctgctcatgt atgtcatcct
361    cagagatcga gtgcctgggt gagatccctg cccctcagga ctattggggc cctgtattcg
421    ccactcgcct ctttcctttt tcttcatca tccctgtgct gatcatctct gtctgctaca
481    gcctcatgat tcgacgactt cgtggtgtcc gtctgctttc aggcctcccg gagaaggacc
541    gaaacctgcg gcgtatcact cgactgggtg tggtagtggg ggctgtgttt gtgggctgct
601    ggacgcctgt gcaggtgttt gtccgtgttc aaggactggg tgttcagcca ggtagtgaga
661    ctgcagttgc catcctgcgc ttctgcacag ccctgggcta tgtcaacagt tgtctcaatc
721    ccattctcta tgctttcctg gatgagaact tcaaggcctg ctttagaaag ttctgctgtg
781    cttcatccct gcaccgggag atgcaggttt ctgacgtgtg gcggagcatt gccaaaggatg
841    ttggccttgg ttgcaagact tctgagacag taccacggcc agcatga
```

Figure 19

SEQ ID NO:22

```

1      cctgctctgc acctgtcgtc gactgccagc cggctgaggg cgggggtctc cacggtgggtc
51     ccagctccca aggaggttgc agaagtaccg tacagagtgg atttgacaggg cagtggcatg
121    gagccccctc tccccgcgcc gttctgggag gttatctacg gcagccacct tcagggcaac
181    ctgtccctcc tgagcccaa ccacagtctg ctgccccgc atctgctgct caatgccagc
241    cacggcgctt tctgccccct cgggtcgaag gtcaccatcg tggggctcta cctggccgtg
301    tgtgtcggag ggctcctggg gaactgcctt gtcagtacg tcacctcag gcacacaaaa
361    atgaagacag ccaccaatat ttacatcttt aacctggccc tggccgacac tctggctctg
421    ctgacgtgc ccttcacaggg cacggacatc ctctggggt tctggccgtt tgggaatgcg
481    ctgtgcaaga cagtcattgc cattgactac tacaacatgt tcaccagcac cttcaccccta
541    actgccatga gtgtggatcg ctatgtagcc atctgccacc ccatccgtgc cctcgacgtc
601    cgcacgtcca gcaaagccca ggctgtcaat gtggccatct gggccctggc ctctgttgct
661    ggtgttcccc ttgccatcat gggctcggca caggtcgagg atgaagagat cgagtgcctg
721    gtggagatcc ctacccctca ggattactgg ggcccgggtg ttgccatctg catcttctct
781    ttctccttca tctgccccgt gctcgtcatc tctgtctgct acagcctcat gatccggcgg
841    ctccgtggag tccgcttgc ctccgggtcc cgagagaagg accggaacct gcggcgcac
901    actcggctgg tctgtgtgtt agtggctgtg ttctgtgggt gctggacgcc tgtccaggtc
961    ttctgtctgg cccaagggtt gggggttcag ccgagagcg agactgccgt ggccattctg
1021   cgcttctgca cggccctggg ctacgtcaac agctgctca acccatcct ctacgccttc
1081   ctggatgaga acttcaaggc ctgcttccgc aagttctgct gtgcatctgc cctgcgcgg
1141   gacgtgcagg tgtctgaccg cgtgcgcagc attgccaagg acgtggccct ggccctgcaag
1201   acctctgaga cggtagccgc gcccgcacga ctaggcgtgg acctgcccac ggtgcctgtc
1261   agcccgacga gccatctac gcccaacaca gagctcacac aggtcactgc tctctaggcg
1321   gacacacctt gggccctgag catccagagc ctgggatggg cttttccctg tgggccaggg
1381   atgctcggtc ccagaggagg acctagtgc atcatgggac aggtcaaagc attagggcc
1441   cctccatggc ccagacaga ctaaagctgc cctcctggtg cagggcccag gggacacaag
1501   gacctacctg gaagcagctg acatgctggt ggacggcctt tactggagcc cgtgccccct
1561   cctccccgtg cttcatgtga ctcttgccct ctctgctgct gcgttggcag aacctgggt
1621   gggcaggcac cggaggagg agcagcagct gtgtcatcct gtgccccca tgtgtgtgt
1681   gctgtttgca tggcagggtt ccagctgctt tcagcctgt gacgtctct cagggcagct
1741   ggacaggctt ggcacggccc gggaagtga gcaggcagct tttctttggg gtgggacttg
1801   cctgagctt ggagctgcca cctggaggac ttgctgttc cgactccacc tgtgcagccg
1861   gggccacccc aggagaaaag gtccagggtg gggctggcag tccctggctg cagacccga
1921   gctggccctc ggaccgcacc tctgaagggt ttctgtgtgc tgcacgggtg aggcctcatc
1981   cctgactgca gcttgactct gggcccaacc cccatttccc ttcaggagac cagcgagagg
2041   cctggccat cctccagcg gtgcaatgaa ctatatgctg tggaccgtca acccagccct
2101   gcttctcagt gtggggcagg tgtctcagga cgaaggcgcc gcgtgaccac atgggcagct
2161   ctgttcacaa agtggaggcc tcgttttctt ggtcttgact gctctgtttg ggtgggagaa
2221   gattctctgg gggccccac atcctcccaa ggctccctc acagcctctc ctttgcttga
2281   agccagaggt cagtggcctg gctgtgttgc ggggaagctg tgtggaagga gaagctgggt
2341   gccacagcag agtctgtct tggggacgcc tgcttcattt acaagcctca agatggctct
2401   gtgtagggcc tgagcttgct gcccacggg aggatggctt cacagcagag ccagcatgag
2461   gggtagggcc tggcagggtt tgcttgagcc aaactgcaaa ggctgtgggt gctgtgagga
2521   cactgcgggg gttg

```

Figure 20
SEQ ID NO:23

MESLFPAPYWEVLYGSHFQGNLSLLNETVPHHLLLNASHSAFLPLGLKVTIVGLYLAVCI GGLIGN
CLVMYVILRDRVPGGDPCPSGLLGPCIRHLHLPFFLHHPCADHLCILQPHDSTTSWCPSAFRLPGE
GPKPAAYHSTGAGSGGCVCGLLDACAGVCPGSRTGCSAR